AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1.-6. (Canceled)
- 7. (Previously Presented) A method for improving affinity with a fibrin glue of a polymeric material comprising carbon or silicon as a constitutional element comprising irradiating at least a portion of a surface of the polymeric material with ions to form an ion-modified polymeric material; and applying the fibrin glue to the irradiated at least a portion of a surface of the polymeric material.
- 8. (Previously Presented) The method according to claim 7 wherein the ion-modified polymeric material includes a non-irradiated portion and the non-irradiated surface is placed into contact with dura mater.
- 9. (Previously Presented) The method according to claim 7 wherein the polymeric material is an artificial dura mater, an artificial blood vessel, a patch for the heart or blood vessel, or a surgical suture.
- 10. (Previously Presented) The method according to claim 7 wherein the material comprising carbon or silicon as a constitutional element comprises expanded polytetra-fluoroethylene (ePTFE), polylactic acid, or polyglactin.
- 11. (Previously Presented) The method according to claim 7 wherein the polymeric material is an artificial dura mater.

- 12. (Previously Presented) The method according to claim 7 wherein the irradiating at least a portion of a surface of the polymeric material comprises irradiating with ions at a dose (ϕ) of 1 x 10¹² $\leq \phi \leq$ 1 x 10¹⁶ ions/cm².
- 13. (Previously Presented) The method according to claim 12 wherein the irradiating at least a portion of a surface of the polymeric material comprises irradiating with ions at a dose (ϕ) of 1 x 10¹³ $\leq \phi \leq$ 1 x 10¹⁵ ions/cm².
- 14. (Previously Presented) The method according to claim 12 wherein the ions include H⁺, He⁺, C⁺, N⁺, Ne⁺, Na⁺, N₂⁺, O₂⁺, Ar⁺, Kr⁺, and Xe⁺.
 - 15. (Canceled)